

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A multichannel recording device for recording digital data constituting a program on a disc-shaped recording medium using a specified minimum data length unit that must be contiguous, comprising:

control means [[for]] alternately recording digital data constituting [[a]] first and second programs that are mutually different, on said disc-shaped recording medium using said specified data length unit; and

reproducing means reproducing said disc-shaped recording medium;
wherein said control means records, on said disc-shaped recording medium,
information for commanding said reproducing means to automatically sequentially reproduce
said first and second programs recorded on said disc-shaped recording medium in the order of
at least one of a channel number or a recording start time.

2. (Currently Amended) A multichannel recording device ~~according to claim 1,~~
~~wherein the digital data constituting said first and second programs that are mutually different~~
~~are being alternately recorded on said disc-shaped recording medium using said specified~~
~~data length unit said, if there is an area in the recording direction where other data are~~
~~recorded, said control means skips the area during the recording. for recording digital data~~
~~constituting a program on a disc-shaped recording medium using a specified minimum data~~
~~length unit that must be contiguous, comprising:~~

control means alternately recording digital data constituting first and second programs
that are mutually different, on said disc-shaped recording medium using said specified data
length unit; and

reproducing means reproducing said disc-shaped recording medium;
wherein said control means records, on said disc-shaped recording medium,
information for commanding said reproducing means to reproduce at least one of said first
and second programs which has been requested for reproduction.

3. (Currently Amended) A multichannel recording device according to claim 1, ~~wherein said control means records information on said disc-shaped recording medium, the information being used to command reproducing means for reproducing said disc-shaped recording medium to automatically sequentially reproduce said first and second programs in the order of a channel number or a recording start time.~~ method for recording digital data constituting a program on a disc-shaped recording medium using a specified minimum data length unit that must be contiguous, comprising:

alternately recording digital data constituting first and second programs that are mutually different on said disc-shaped recording medium using said specified data length unit;

reproducing said disc-shaped recording medium; and
recording, on said disc-shaped recording medium, by a reproducing means,
information for commanding said reproducing means to automatically sequentially reproduce said first and second programs recorded on said disc-shaped recording medium in the order of at least one of a channel number or a recording start time.

4. (Currently Amended) A multichannel recording device according to claim 1, ~~wherein said control means records information on said disc-shaped recording medium, the information being used to command reproducing means for reproducing said disc-shaped recording medium to reproduce one of said first and second programs which has been requested for reproduction.~~ method for recording digital data constituting a program on a disc-shaped recording medium using a specified minimum data length unit that must be contiguous, comprising:

alternately recording digital data constituting first and second programs that are mutually different on said disc-shaped recording medium using said specified data length unit;

reproducing said disc-shaped recording medium; and
recording, on said disc-shaped recording medium, by a reproducing means,
information for commanding said reproducing means to reproduce at least one of said first and second programs which has been requested for reproduction.

5. – 10. (Canceled)

11. (New) A multichannel recording device according to claim 1,
wherein while the digital data constituting said first and second programs are being
alternately recorded on said disc-shaped recording medium using said specified data length
unit, if there is an area in the recording direction where other data are recorded, said control
means skips the area during the recording.

12. (New) A multichannel recording device according to claim 2,
wherein while the digital data constituting said first and second programs are being
alternately recorded on said disc-shaped recording medium using said specified data length
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unit, if there is an area in the recording direction where other data are recorded, said control
means skips the area during the recording.

13. (New) A multichannel recording method according to claim 3,
wherein while the digital data constituting said first and second programs are being
alternately recorded on said disc-shaped recording medium using said specified data length
unit, if there is an area in the recording direction where other data are recorded, the area is
skipped during said recording.

14. (New) A multichannel recording method according to claim 4,
wherein while the digital data constituting said first and second programs are being
alternately recorded on said disc-shaped recording medium using said specified data length
unit, if there is an area in the recording direction where other data are recorded, the area is
skipped during said recording.

15. (New) A multichannel recording device according to claim 1, wherein said
specified data length unit is a CDA unit.

16. (New) A multichannel recording device according to claim 2, wherein said
specified data length unit is a CDA unit.

17. (New) A multichannel recording method according to claim 3, wherein said
specified data length unit is a CDA unit.

18. (New) A multichannel recording method according to claim 4, wherein said
CL specified data length unit is a CDA unit.